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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/616,668	07/09/2003	Bruce G. Johnson	10012473-3	2599	
7.	590 06/01/2005		EXAM	INER	
HEWLETT-PACKARD COMPANY			TRAN	TRAN, LY T	
Intellectual Property Administration P. O. Box 272400			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No	·-	Applicant(s)				
Office Action Commons	10/616,668		JOHNSON, BRUC	E G.			
Office Action Summary	Examiner		Art Unit				
	Ly T. TRAN		2853				
The MAILING DATE of this communication app Period for Reply	ears on the cove	er sheet with the co	rrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of 16 NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how y within the statutory m will apply and will expire , cause the application	vever, may a reply be time inimum of thirty (30) days v a SIX (6) MONTHS from th to become ABANDONED	ly filed will be considered timely ne mailing date of this co (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on 27 Ju	<u>uly 2004</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-fi	nal.					
,	this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle,	1935 C.D. 11, 453	3 O.G. 213.				
Disposition of Claims							
4) ☐ Claim(s) 33 and 37-58 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 53-58 is/are allowed. 6) ☐ Claim(s) 33 and 37-52 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from conside			·			
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) of old drawing(s) be hele tion is required if the	d in abeyance. See he drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CF	• •			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been rec s have been rec rity documents h u (PCT Rule 17.	eived. eived in Applicatio nave been received 2(a)).	n No d in this National	Stage			
Attachment(s)	_	-					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) [_ 5) [_ 6) [_	Interview Summary (I Paper No(s)/Mail Dat Notice of Informal Pa Other:	e	O-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

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Claim Objections

1. Claims 51 and 52 are objected to because of the following informalities: method

claims can't depend on apparatus claim. Appropriate correction is required.

2. Claims 51 and 52 recite the limitation "method" in line 1. There is insufficient

antecedent basis for this limitation in the claim.

3. Claim 51 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

Claim 51 recites no electrical charge but the dependent claim 44 recites electrical

charge. The Examiner confuses what Applicant try to said.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

4. Claims 33, 38-42 are rejected under 35 U.S.C. 102(b) as being anticipate by Takei (EP 530627).

With respect to claims 33 and 41, Takei discloses a method of printing with an ink jet comprising:

- A supply of ink liquid ink comprising a carrier fluid (Fig.4: element 23C, M
 Y)
- An ink jet head using the ink for printing images on a transfer member that
 is adjacent to the print head and moveable with respect to the print head
 (Fig.4, Abstract);
- Evaporating some of carrier fluid form the image as the transfer member
 moves between the print head and a position at which the image is
 transferred from the transfer member to a sheet of the print medium and
 delaying transfer of the image from the transfer member to the sheet to
 allow evaporation of carrier fluid from ink of image (Abstract, because the
 ink is ejected on the drum then transfer to the paper, delaying is occurred)
- The transferring the printed image from the transfer member to a sheet of the print medium (Fig.4: element S);
- Wherein the transfer member is a transfer belt (Column 11: line 44-45)
 and the method further comprises absorbing carrier fluid from ink of the
 image with the transfer belt (Column 5: line 45-49)

With respect to claim 38, Takei discloses ink jet head comprises a page width array (Fig.4: element 23).

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With respect to claim 39, Takei discloses cleaning the transfer member after transfer of the image to the sheet of the medium (Fig.4: element 22)

With respect to claim 40, Takei discloses a pinch roller for facilitating transfer of an image from the transfer member to the sheet of print medium (Fig.4: element 25).

With respect to claim 42, Takei discloses heating the transfer member (Fig.4: element 27).

With respect to claim 43, Takei discloses that wherein the electrical charge facilitates transfer of the images to the print medium (Column 10: line 1-10)

With respect to claims 44 and 52, Takei discloses an ink jet printing system comprising:

- Ink comprising a carrier fluid (Fig.1: element 1)
- An ink jet head (Fig.8: element 53) using the ink for printing images on a transfer member (Fig.8: element 51) that is adjacent to the print head and moveable with respect to the print head.
- The transfer member disposed to transfer an image to the print medium
 (Fig.8: S)
- Wherein the electrical charge facilitates transfer of the images to the print medium (Column 10: line 1-10)

With respect to claim 45, Takei discloses the transfer member comprises a transfer belt (Column 11: line 44-46)

With respect to claim 46, Takei discloses transfer member comprises a drum (Fig.8: element 51).

With respect to claim 49, Takei discloses a pinch roller for facilitating transfer of an image from the transfer member to the medium (Fig.8: element 55).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 37 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takei (EP 530 627).

Takei in the embodiment 4, figure 4 discloses the claimed invention except that using full line head instead of scanning head. Takei in embodiment 3, figure 3 shows that full line head and scanning head is an equivalent structure known in the art. Therefore, because full line head and scanning head were art recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute scanning head for full line head for the same purpose of ejecting ink.

6. Claims 48, 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takei (EP 530 627).

Takei in embodiment 8, figure 8 fails to teach a cleaning roller for cleaning the transfer member and heating element for heating the transfer member.

Takei in embodiment 4 teach the cleaning roller (Fig.4: element 22) for cleaning the transfer member and heating element (figure 4: element 27) for heating the transfer member.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a cleaning roller and the heating element as taught by Takei in embodiment 4. The motivation of doing so is to remove residual ink on the transfer roller and release absorbed water on the transfer member.

Allowable Subject Matter

7. Claims 53-58 are allowed.

The primary reason for the allowance of claim 53-58 is the inclusion of the limitation of method of printing with an ink jet printing system comprising adjusting a speed of movement of the transfer member to maximize evaporation of the carrier fluid. It is limitation found in each claims, as it is claimed in the combination, that has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

May 27, 2005

Stephen D. Meier Primary Examiner